

WAVELENGTH DISCRIMINATED IMAGE DITHERING

ABSTRACT

A method and system for providing a dithered image is provided. In one embodiment, a projector system for providing a dithered image includes a light source comprising a first and a second light emitting diode (LED). The first LED is operable to transmit a first light beam at a first peak wavelength. The second LED is operable to transmit a second light beam at a second peak wavelength. The first peak wavelength is disparate from the second peak wavelength. A digital micromirror device (DMD) is operable to receive the first beam and the second beam and selectively pass a first portion of the first beam and a second portion of the second beam along a projection path. A dichroic reflector operable to receive the first portion and the second portion, passively pass the first portion along the projection path, and substantially reflect the second portion within a wavelength range. An optical mirror operable to receive the substantially reflected second portion and reflect the substantially reflected second portion along an offset path.